

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/009972

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl.⁷ G01R33/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl.⁷ G01R33/02-10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
$\frac{Y}{A}$	JP 2003-167037 A (Tama Denki Kogyo Kabushiki Kaisha), 13 June, 2003 (13.06.03), Par. Nos. [0017] to [0021]; Figs. 3, 5 (Family: none)	$\frac{1, 9, 15}{2-8, 10-14}$
$\frac{Y}{A}$	JP 2001-318131 A (Minebea Co., Ltd.), 16 November, 2001 (16.11.01), Par. Nos. [0026], [0043]; Figs. 1, 8 (Family: none)	$\frac{1, 9, 15, 16, 18}{2-8, 10-14, 17}$

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
30 August, 2004 (30.08.04)

Date of mailing of the international search report
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Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<u>Y</u>	JP 2-111085 A (Aichi Tokei Denki Kabushiki Kaisha), 24 April, 1990 (24.04.90), Page 2, upper right column, lines 13 to 17; Fig. 1 (Family: none)	<u>16, 18</u>
A	JP 2000-081471 A (Aichi Steel Works Ltd.), 21 March, 2000 (21.03.00), Par. Nos. [0037] to [0038]; Figs. 11 to 12 (Family: none)	2-8, 17
A	JP 8-029509 A (Shimadzu Corp.), 02 February, 1996 (02.02.96), Full text; all drawings (Family: none)	2-8, 17